

## Claims

We claim:

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1. An Element Management System (EMS), comprising: a system for managing elements of a communication network without using SNMP.
  2. An EMS, comprising: a system for managing elements of a communication network wherein the system has a means for directly calling the network elements.
  3. The EMS of claim 2, wherein: the EMS and the server processes are separate processes.
  4. The EMS of claim 2, wherein: there is an intermediate native library that the EMS and the server processes can access.
  5. The EMS of claim 4, wherein: there is an abstraction layer comprising two parts: one native to the EMS programming language and the other native to the language of the server processes.
  6. The EMS of claim 5, wherein the abstraction layer publishes an Interface Definition File (IDF).
  7. The EMS of claim 2, wherein: the EMS process and the server processes are distributed on different computers and the EMS has an agent on the server processes computer written in the same programming language as the EMS.
  8. The EMS of claim 2, wherein: said EMS-agent is connected to the EMS with a TCP/IP connection.
  9. The EMS of claim 7, wherein: there is an intermediate native library that the EMS agent and the server processes can access.
  10. The EMS of claim 9, wherein: there is an abstraction layer comprising two parts: one native to the EMS programming language and the other native to the language of the server processes.
  11. The EMS of claim 10, wherein the abstraction layer publishes an Interface Definition File (IDF).
  12. An EMS, comprising: a system for managing elements of a communication network wherein the system uses XML messages to communicate to the network elements.
  13. The EMS of claim 12, wherein: there the EMS and the server processes have an encoder and a decoder and a means to support synchronous and asynchronous messaging.
  14. The EMS of claim 13, wherein: the server on which the server processes includes a message dispatcher to distribute the translated incoming messages to various server processes.
  15. The EMS of claim 1 wherein the system has only one master database for non real-time data.
  16. The EMS of claim 2 wherein the system has only one master database for non real-time data.
  17. The EMS of claim 12 wherein the system has only one master database for non real-time data.
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